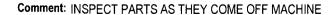
Dart Aerospace Ltd. Monday, 28/04/2008 11:34:35 AM User: Linda Lacelle **Process Sheet** :: A119 BUBBLE WINDOW Customer : CU-DAR001 Dart Helicopters Services **Drawing Name** Job Number : 38842A **Estimate Number** : 12911 : D36242 P.O. Number **Part Number** . D3624 REV. D This Issue : 28/04/2008 S.O. No. : **Drawing Number** : N/A Prsht Rev. : NC Project Number REV. D First Issue : // Type : THERMOFORMING **Drawing Revision** .:. `\ : 37199A **Previous Run** Material : 05/05/2008 Qty: 2 Um: Each **Due Date** Written By Checked & Approved By 6/27/2007 DL Comment Thermoform in house : Est. A Est B. Revised due to corrupt operating Program. 7/23/2007 DL Dwg. Rev. change 7/30/2007 Est C. Est. D. Dwg. Rev. Updated 4/25/2008 verified by:DD **Additional Product** Job Number: Seq. #: **Machine Or Operation: Description:** MACRYLICS177 0.177" PLEXIGLAS G CLEAR CAST ACRYLIC SH 1.0 Comment: Qty.: 10.0000 sf(s)/Unit Total: 20.0000 sf(s) 0.177" PLEXIGLAS G CLEAR CAST ACRYLIC SH BC. 08.04.28 2.0 HAND FINISHING THERMOFORMING Dh. 09.04.26. Comment: HAND FINISHING THERMOFORMING 1) Cut Blanks to 30" by 48" 3.0 THERMOFORMING MACHINE **Comment: THERMOFORMING MACHINE** Thermoform as per Dwg. D3624 and Folio FTA 004 Uh. 68.04.28 Dwg. Rev. _ Folio Rev.

4.0 QC2

INSPECT PARTS AS THEY COME OFF MACHINE



1) Check Surface finish for undesired marks, voids, dimples etc.

2) Check depth of bubble to ensure conformity to drawing tolerances.

Mr. 08.04.28.

Dart Aerospace Lt

W/O:		WORK ORDER CHANGES							
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
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	<u> </u>								

Part No: <u>D3624-Z</u>	PAR #:	Fault Category:	NCR: Yes DQA:	Date: 08/18/29
	1		OA: N/C Closed:	Data

NCR: 35	3842A		WORK OF	WORK ORDER NON-CONFORMANCE (NCR)				
DATE	STEP	Description of N	С	Corrective Action Section B		Verification	Approval	Approval
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC inspector
68.05.01	3	Oty(1) the depth is TRAILING EDGE ANGI	1925", P LE 15 08.0501	PART ACCEPTABLE REE DS EMAIL	NA		(P) 08.65.61	
			051042		,077	poor or	05/042	105-ST-02
		<u>'</u> 						
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NOTE: Date & initial all entries

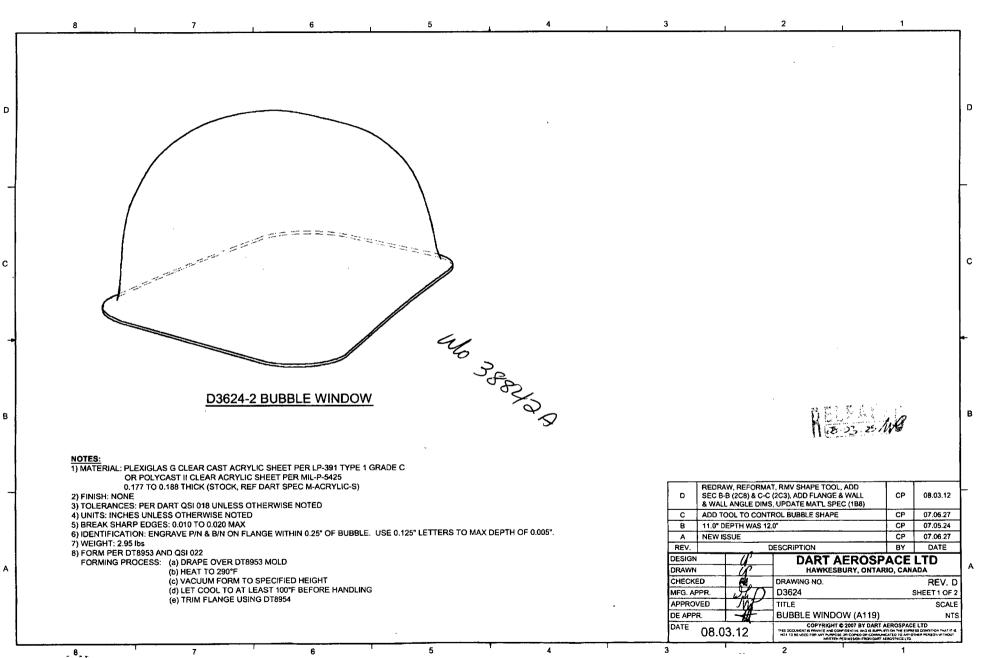
Date? Monday, 28/04/2008 11:34:35 AM User: Linda Lacelle **Process Sheet** Customer: CU-DAR001 Dart Helicopters Services Drawing Name: A119 BUBBLE WINDOW Job Number: 38842A Part Number: D36242 Job Number: Seq. #: **Machine Or Operation:** Description: HAND FINISH TH HAND FINISHING THERMOFORMING 5.0 Comment: HAND FINISHING THERMOFORMING 1) Trim to Finished Dimensions 2) Buff out any light scratches or blemishes 3) Etch in part number and batch number INSPECT PARTS AS THEY COME OFF Comment: INSPECT PARTS AS THEY COME OFF MACHINE 7.0 QC5 Comment: INSPECT WORK TO CURRENT STEP 8.0 PACKAGING 1 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 9.0 QC21 1MF 08-10-2 Comment: FINAL INSPECTION/W/O RELEASE Job Completion

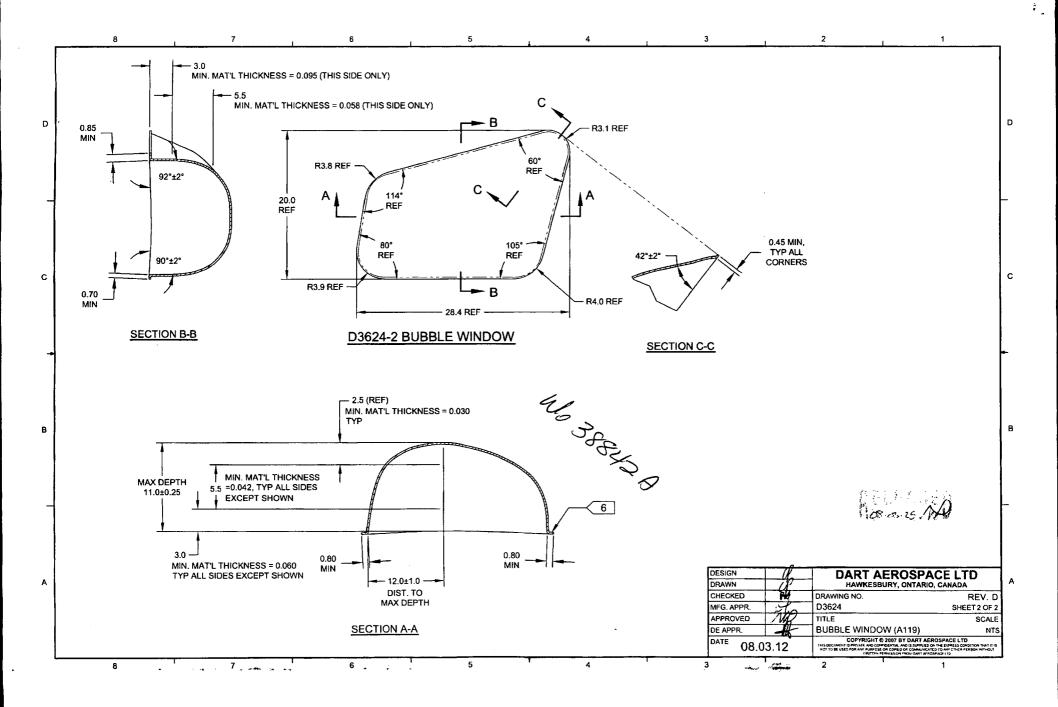
QA: N/C Closed: ____ Date: ____

W/O:			WORK ORDER CHANGES						
DATE	STEP		PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No		DAĎ	#· Fault Catagony	NO	Di Voc	No DO	۸.	Deter	

NCR:		WORK ORDER NON-CONFORMANCE (NCR)							
		Description of NC			Corrective Action Section B	 	Verification	A = = = = = = = = = = = = = = = = = = =	A
DATE	STEP	Section A		Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries





DART AEROSPACE LTD	WORK ORDER: 38847 A.	
Description: A119 Bubble Window.	Part Number: D 3674-2	
Inspection Dwg: 1) 3624 Rev: 1).	#/ Page 1 of 1	

FIRST ARTICLE INSPECTION CHECKLIST

First Article Prototype

(Step 4) Thermoforming Visual Inspection Sign-off

Description	Initials
Depth of bubble within tolerances	Oh.
Acceptable shape definition	Dhe.
Free of visual flaws (bumps, cracks, voids, etc.	Sh

(Step 6) Trimming FAI Checklist

Inspect dimensions highlighted on inspection sheet drawing Delay Rev. D and record below

Drawing	Tolerance	Actual	Accept	Reject	Method of	Comments
Dimension		Dimension			Inspection	
depth of bubble 11"	+/- 0.25"	10.875				
leading edge at 3" high	0.095" min thick	0,098				
leading edge at 8.5" high	0.058" min. thick	6.063				
trailing edge at 3" high	0.060" min thick	<i>ව.୦80</i>				*
trailing edge at 8.5" high	0.042" min thick	0,050				
top 2.5" of bubble	0.030" min thick	0.038	\			1
leading edge angle 92°	+/- 0.2°	920	V			
trailing edge angle 90°	+/- 0.2°	900	/			<u> </u>
width leading edge flange	0.85" min	Q.95"				٠٤
width training edge flange	0.70" min.	8:851				<u></u>
			1			

Measu	red by:	96	Audited by:	Prototype Approval:	1/2
	Date: ੴ	04.29	Date: Do () O (Date:	Dila
Rev	Date	Change		Revised by	Approved
		Now Issue			

DART AEROSPACE LTD	WORK ORDER: 38842A
Description: A119 Baleble Window.	Part Number: D3634.2
Inspection Dwg: \(\) 3642 Rev: \(\)	Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

First Article Prototype

(Step 4) Thermoforming Visual Inspection Sign-off

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Dho
Dh.

(Step 6) Trimming FAI Checklist

Inspect dimensions highlighted on inspection sheet drawing D2624 Rev. D and record below

Drawing	Tolerance	Actual	Accept	Reject	Method of	∠ Comments
Dimension		Dimension			Inspection	
depth of bubble 11"	+/- 0.25"	10.25"				Acceptable por Ex
leading edge at 3" high	0.095" min thick	0,098"				disposition
leading edge at 8.5" high	0.058" min. thick	0,077"				
trailing edge at 3" high	0.060" min thick	0.095	V /			
trailing edge at 8.5" high	0.042" min thick	0.063.				
top 2.5" of bubble	0.030" min thick	0,050,	V			
leading edge angle 92°	+/- 0.2°	949	V			
trailing edge angle 90°	+/- 0.2°	939	/			
width leading edge flange	0.85" min	.90				
width training edge flange	0.70" min.	. 792				

				\ . /
Measur	red by:	Ti I	Audited by:	Prototype Approval:
Date: 08 04 3°			Date: V	Date:
•	1 00.	- (- ∨ <i>(</i>	90/11/28	
Rev	Date	Change		Revised by Approved
		New Issue		

Chris Provencal

From: David Shepherd [dshepherd@dartaero.com]

Sent: April 30, 2008 6:19 PM

To: 'Chris Provencal'
Cc: 'Mike Petsche'

Subject: RE: NCR D3624-2 Bubble Window (A119)

Chris,

Acceptable deviation.

David

From: Chris Provencal [mailto:cprovencal@dartaero.com]

Sent: Tuesday, April 29, 2008 12:47 PM

To: 'David Shepherd' **Cc:** 'Mike Petsche'; D Leger

Subject: NCR D3624-2 Bubble Window (A119)

Qty(1) D3624-2, the depth is 10.25" (should be 11.0"+/-0.25"). The trailing edge angle is 93 deg, instead of 90+/-2 deg. All the thicknesses are OK.

I think its OK, the depth is about what we get for the R44. I talked with Bill, he's OK with the depth if we are. This is not one of the ones shipped out this week.

-Chris

No virus found in this incoming message.

Checked by AVG.

Version: 7.5.524 / Virus Database: 269.23.6/1403 - Release Date: 4/29/2008 7:26 AM

No virus found in this outgoing message.

Checked by AVG.

Version: 7.5.524 / Virus Database: 269.23.6/1407 - Release Date: 4/30/2008 11:35 AM